## **Carnegie Mellon University**



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Marlene H. Dortch, Secretary Federal Communications Commission 445 Twelfth Street, SW Washington, DC 20554

Re: Notice of ex parte communications, <u>ET Docket 13-49</u>

Dear Ms. Dortch:

On March 15, 2017, I met with FCC Chairman Ajit Pai and Senior Counsel Nicholas Degani. We discussed DSRC-based vehicular communications networks. I described how the networks work, how they can be used to provide Internet services as well as support highway safety applications, and how vehicular networks can be more cost-effective than cellular systems under some conditions. This discussion was informational. I represented no one other than myself.

I followed up by providing a paper on Internet access over vehicular networks, and the URL of a website with this and other research from my lab on vehicular networks. I also stated that my website has research papers on current spectrum management issues such as location privacy in database-coordinated spectrum sharing and single frequency networks in next-generation television, and papers on current public safety issues such as emergency alerts for non-English speakers and FirstNet.

Sincerely Jon M. Peha

<sup>&</sup>lt;sup>1</sup> A. Ligo, J. M. Peha, P. Ferreira, J. Barros, "Comparison between Benefits and Costs of Offload of Mobile Internet Traffic Via Vehicular Networks," *Telecommunications Policy Research Conference (TPRC)*, 2015.

https://users.ece.cmu.edu/~peha/papers.html
 N. Rajkarnikar, J. M. Peha, A. Aguiar, "Location Privacy from Dummy Devices in Database-Coordinated Spectrum Sharing," *IEEE Conference on Dynamic Spectrum Access Networks (DySPAN)*, 2017.

<sup>&</sup>lt;sup>4</sup> R. Bettencourt and J. M. Peha, "Reducing Spectrum Use in Traditional and SFN-based Television for Uniform and Non-Uniform Deployments," *Telecommunications Policy*.

J. M. Peha and M. S. Yu, "Broadcasting Emergency Information to Non-English Speakers," IEEE International Conference on Technologies for Homeland Security, 2017.

<sup>&</sup>lt;sup>6</sup> J. M. Peha, "A Public Private Approach to Public Safety Communications," *Issues in Science and Technology*, National Academy Press, vol. 29, no. 4, pp. 37-42, Summer 2013.